IN THE CLAIMS

- 1. (original): A process for making an electronic device comprising a dielectric substrate laminated with an electrically conductive metal or alloy which comprises applying a non-aqueous etch-resistant ink by ink jet printing to selected areas of the metal or alloy, exposing the etch-resistant ink to actinic radiation and/or particle beam radiation to effect polymerisation, removing exposed metal or alloy by a chemical etching process and then removing the polymerised etch-resistant ink by alkali wherein the etch-resistant ink is substantially solvent free and comprises the components:
 - A) 30 to 90 parts acrylate functional monomers free from acid groups comprising mono or higher functionality wherein 5 – 95% by weight is one or more mono-functional monomers;
 - B) 1 to 30 parts acrylate functional monomer containing one or more acid groups;
 - C) 0 to 20 parts polymer or prepolymer;
 - D) 0 to 20 parts radical initiator;
 - E) 0 to 5 parts colorant;
 - F) 0 to 5 parts surfactant; and

wherein the ink has a viscosity of not greater than 30 cPs (mPa.s) at 40°C and all parts are by weight.

- 2. (original): A process as claimed in claim 1 wherein the amount of mono-functional acrylate monomer is 70 95% by weight of component A).
- 3. (currently amended): A process as claimed in either claim 1 or claim-2 wherein the amount of component B) is not greater than 10 parts.
- 4. (currently amended): A process as claimed in any one of claims 1 to 2 claim 1 wherein the amount of component B) is not less than 6 parts.
- 5. (currently amended): A process as claimed in any one of claims 1 to 4 claim 1 wherein component B) is acrylic acid or mono-2-(methacryloyl)ethyl phthalate.

- 6. (currently amended): A process as claimed in any one of claims 1 to 5 claim 1 wherein the radical initiator is a photoinitiator activated by UV light.
- 7. (currently amended): A process as claimed in any one of claims 1 to 6 claim 1 wherein the ink has a surface tension of from 20 to 40 mN/m.
- 8. (currently amended): A process as claimed in any one of claims 1 to 7 <u>claim 1</u> wherein the viscosity of the ink is from 8 to 20 cPs (mPa.s) at 40°C.
- 9. (currently amended): A process as claimed in any one of claims 1 to 8 <u>claim 1</u> wherein component B) has an acid value of not less than 100mg KOH/g.
- 10. (currently amended): A process as claimed in any one of claims 1 to 9 claim 1 wherein the total etch-resistant ink has an acid value greater than 30 mg KOH/gm.
- 11. (currently amended): A process as claimed in any one of claims 1 to 10 claim 1 wherein the amount of polymer or prepolymer (component C)) is zero.
- 12. (currently amended): A process as claimed in any one of claims 1 to 11 claim 1 wherein the amount of radical initiator is not less than 0.1 parts.
- 13. (currently amended): A process as claimed in any one of claims 1 to 12 claim 1 wherein the number of parts of components A) + B) + C) + D) + E) + F) = 100.
- 14. (currently amended): An electronic device comprising a dielectric substrate and an electrically conductive metal or alloy which is partially coated with a non-aqueous etch-resistant ink composition by a process as claimed in any one of claims 1 to 13 claim 1.
- 15. (original): An electronic device as claimed in claim 14 which has been exposed to actinic radiation.
- 16. (currently amended): An electronic device as claimed in either claim 14 or claim 15 which is a printed circuit board.

- 17. (original): A non-aqueous etch-resistant ink for ink jet printing which is substantially free from organic solvents which comprises:
 - A) 30 to 90 parts acrylate functional monomers free from acid groups comprising mono or higher functionality wherein 5 95% by weight is one or more mono-functional monomers;
 - B) 1 to 30 parts acrylate functional monomer containing one or more acid groups;
 - C) 0 to 20 parts polymer or prepolymer;
 - D) 0.1 to 20 parts radical initiator;
 - E) 0 to 10 parts colorant;
 - F) 0 to 5 parts surfactant; and

wherein the ink has a viscosity of not greater than 30 cPs (mPa.s) at 40°C and all parts are by weight.

- 18. (original): A non-aqueous etch-resistant ink for ink jet printing which is substantially free from organic solvents which comprises:
 - A) 30 to 90 parts acrylate functional monomers free from acid groups comprising mono or higher functionality wherein 5 95% by weight is one or more mono-functional monomers;
 - B) 1 to 30 parts acrylate functional monomer containing one or more acid groups;
 - C) 0 to 20 parts polymer or prepolymer;
 - D) 0.1 to 20 parts radical initiator;
 - E) 0 to 10 parts colorant; and
- F) 0 to 5 parts surfactant;

wherein the ink has an acid value of greater than 30 mg KOH/gm and less than 120mg KOH/gm and all parts are by weight.

- 19. (original): An ink as claimed in either claim 17 or claim 18 wherein the acid group(s) of the acrylate functional monomer of component B) contains a carboxylic acid group(s).
- 20. (currently amended): An ink as claimed in any one of claims 17 to 19 claim 17 or claim 18 wherein the number of parts of components A) + B) + C) + D) + E) + F) = 100.

21. (currently amended): A cartridge comprising a chamber and an ink wherein the ink is present in the chamber and the ink is an etch-resistant ink as claimed in any one of claims 17 to 20 claim 17 or claim 18.